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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/773,455	01/31/2001	John SanGiovanni	MS155618.1/40062.105US01	7893
23552	7590	12/05/2003	EXAMINER	
MERCHANT & GOULD PC P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903			PAN, YUWEN	
			ART UNIT	PAPER NUMBER
			2682	4

DATE MAILED: 12/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/773,455

Applicant(s)

SANGIOVANNI, JOHN

Examiner

Yuwen Pan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 31 January 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3, 10-19, 24, 28-34 are rejected under 35 U.S.C. 102(e) as being anticipated by Harrison (US006240302B1).

With respect to claims 1,18, 24 Harrison discloses that a modular apparatus for integrating mobile computing device features with a wireless communication device, the apparatus comprising:

a handheld information input/output device; a handheld wireless communication device having an information processing module(see figure 1 and items 12 and 43); and

a universal joint with mechanical latch positions attaching the information input/output device to the wireless communication device (see figure 2 and items 36 and 58), the universal joint allowing separation of the information input/output device from the wireless communication device, whereby, when the information input/output device and the wireless communication device are connected, the information input/output device interacts with the information processing module to integrate mobile computing features with the wireless communication device (see column 2 and lines 9-30).

With respect to claims 2, 28, Harrison further disclose that the handheld information input/output device comprises: an input device inputting information into the information processing module; and a display presenting output processed from the information-processing device (see column 3 and lines 47-60).

With respect to claim 3, Harrison further disclose that the universal joint latches in at least one position fastening the wireless communication device to and in a relative position to the information input/output device to allow a user to hold with one hand both devices and input information with the same hand (see figure 1).

With respect to claims 10,11,29,30,31, Harrison further discloses that the modular apparatus of claim 1 wherein the universal joint comprises: at least one electrical contact electrically connecting the information input/output device to the wireless communication device, the wireless communication device supplying power to the information input/output device through the electrical contacts, wherein the electrical contact transmits and receives information between the information input/output device and the wireless communication device (see column 3 and lines 47-60).

With respect to claim 12-14, Harrison further discloses that the universal joint comprises a swivel rotating the information input/output device normal to the wireless communication device, the information input/output device rotatable on a horizontal axis, wherein the information input/output device is rotatable between 0 and 90 degrees, wherein the swivel latches in at least one position fastening the information input/output device to and in a relative position to the wireless communication device to allow the modular apparatus to stand on a surface of the wireless communication device thereby allowing a user to position the modular

apparatus on a flat surface for viewing the display (see figure 1 and 2, see column 2 and line 1-9, column 4 and lines 3-15).

With respect to claims 15,16, 19, Harrison further discloses that the wireless communication device and the information device are detached from the universal joint such that the wireless communication device is used independently of the information device (see figure 2).

With respect to claim 17, Harrison further discloses that the wireless communication device is an e-mail receptor and transmission module (see column 1 and lines 55-60).

With respect to claim 32 and 33, Harrison further discloses that the handheld mobile computing device comprises: a graphical user interface providing interaction between the user and the device through the input device, wherein the handheld mobile computing device is a personal digital assistant (see column 3 and lines 35-60).

With respect to claim 34, Harrison further discloses that the universal joint latches in at least one position fastening the handheld wireless communication device to and in a relative position to the handheld mobile computing device to allow a user to hold with one hand both devices and input information with the same hand (see figure 1).

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 4-7,20,35, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harrison (US006240302B1) in view of Campo (US006073033A).

Harrison has disclosed an analogous device as recited in claims 1-3. Harrison doesn't disclose that the display presents an output image, an orientation of the output image adapted based upon a position of the display relative to the wireless communication device, the modular apparatus of claim 4 wherein the output image on the display is adapted for left-hand orientation, the modular apparatus of claim 4 wherein the output image on the display is adapted for right-hand orientation, the modular apparatus of claim 4 wherein the orientation of the output image is controlled by a selection element.

Campo discloses that a position sensor is provided to automatically detect the position of the wireless device was hold wherein the output image would be inverted with respect whether the display is for left-hand orientation or right-hand orientation (see column 3 and lines 1-25, and figures 7-10).

It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Campo with Harrison's device such that it is convenience for the user to holding the phone either with right or left hand and still able to observe the display in a normal way during a call.

5. Claims 8,9,21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harrison (US006240302B1) in view of Kfoury (US006549789B1).

With respect to claim 8,9,21,22, Harrison has disclosed an analogous device as recited in claims 1. Harrison doesn't disclose that a universal joint is a pivot rotating the information input/output device tangential to the wireless communication device, the information

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input/output device rotatable on a vertical axis wherein the information input/output device is rotatable between 0 and 360 degrees.

Kfoury discloses that a universal joint is a pivot rotating the information input/output device tangential to the wireless communication device, the information input/output device rotatable on a vertical axis wherein the information input/output device is rotatable between 0 and 360 degrees (see figure 3 and item 304 and 306, figure 9 and 12).

It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Kfoury with Harrison's device such that with a 360 degree angle function, the user would be able to view the screen from different angle and demonstrate the content in the screen without rotate the whole body only the part with display function.

With respect to claim 23, Harrison further discloses that the universal joint comprises a swivel rotating the information input/output device normal to the wireless communication device, the information input/output device rotatable on a horizontal axis, wherein the information input/output device is rotatable between 0 and 90 degrees see figure 1 and 2, see column 2 and line 1-9, column 4 and lines 3-15).

6. Claims 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harrison (US006240302B1) in view of Kobayashi (US006633759B1).

Harrison has disclosed an analogous device as recited in claims 1. Harrison doesn't disclose that a wireless link transmitting and receiving information between the handheld wireless communication device and the handheld mobile computer device while the device are not connected by the universal joint, wherein the wireless link transmits and receives information

between the handheld wireless communication device and the handheld mobile computing device so long as the device are within a predetermined range, about 30 feet, of each other.

Kobayashi discloses that a wireless link, such as Bluetooth, transmitting and receiving information between the handheld wireless communication device and the handheld mobile computer device while the device are not connected by the universal joint, wherein the wireless link transmits and receives information between the handheld wireless communication device and the handheld mobile computing device so long as the device are within a predetermined range, about 30 feet, of each other (see figure 9, see column 4 and lines 55-64).

It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teach of Kobayashi with Harrison's device such that it is convenient for user to receive or transmit information by carrying only one of the device.

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shindo (US005898774A) discloses a portable telephone having a reversible and sliding card casing. Gray (US005485517A) discloses a portable wireless telephone having swivel chassis.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuwen Pan whose telephone number is 703-305-7372. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703-308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.



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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-0377.

Yuwen Pan  
December 1, 2003

  
VIVIAN CHIN  
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12/1/03